This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method comprising:

selectively aligning at least two image based rendering (IBR) image data along a specific direction; and

selectively rebinning the aligned IBR image data to form a multiperspective panorama by determining at least one displacement vector associated with the at least two IBR image data and subdividing at least one of the IBR image data based on the displacement vector and combining specific portions selected from each IBR image data to form at least a portion of the multi-perspective panorama.

- 2. (original) The method as recited in Claim 1, wherein the IBR image data includes concentric mosaic (COM) image data.
- 3. (original) The method as recited in Claim 2, wherein the specific direction is substantially a horizontal direction with respect to a captured scene.
- 4. (original) The method as recited in Claim 1, wherein selectively aligning the at least two image based rendering (IBR) image data further includes pair-wise aligning of concentric mosaic (COM) image data.

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5. (currently amended) The method as recited in Claim 1, wherein selectively rebinning the aligned IBR image data to form the multiperspective panorama further includes:

subdividing each of the IBR image data into a plurality of portions; and combining a specific portion selected from each IBR image data to form a portion of the multi-perspective panorama.

- 6. (currently amended) The method as recited in Claim 5, wherein subdividing each of the IBR image data into the plurality of portions further includes determining at least one displacement vector associated with the at least two IBR image data and subdividing at least one of the IBR image data based on the a magnitude of the displacement vector.
- 7. (original) The method as recited in Claim 6, wherein the displacement vector is a motion vector.
- 8. (original) The method as recited in Claim 6, wherein determining at least one displacement vector further includes setting the displacement vector for each of the at least two IBR image data to be of equal magnitude so as to support a simple rebinning process.

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- 9. (original) The method as recited in Claim 6, wherein determining at least one displacement vector further includes setting the displacement vector for each of the at least two IBR image data to be of different magnitude while supporting a smart rebinning process.
- 10. (original) The method as recited in Claim 1, further comprising: generating a set of multi-perspective panoramas to provide a dense representation of an IBR captured environment.
- 11. (original) The method as recited in Claim 10, further comprising: encoding at least a portion of the multi-perspective panoramas using a 3D wavelet transform.
- 12. (currently amended) A computer-readable medium having instructions for performing the steps of:

selectively aligning at least two image based rendering (IBR) image data along a specific direction; and

selectively rebinning the aligned IBR image data to form a multiperspective panorama by determining at least one displacement vector associated with the at least two IBR image data and subdividing at least one of the IBR image data based on the displacement vector and combining specific portions selected from each IBR image data to form at least a portion of the multi-perspective panorama.

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13. The computer-readable medium as recited in Claim 12, (original) wherein the IBR image data includes concentric mosaic (COM) image data.

- 14. (original) The computer-readable medium as recited in Claim 13, wherein the specific direction is substantially a horizontal direction with respect to a captured scene.
- 15. The computer-readable medium as recited in Claim 12, (original) wherein selectively aligning the at least two image based rendering (IBR) image data further includes pair-wise aligning of concentric mosaic (COM) image data.
- 16. (currently amended) The computer-readable medium as recited in Claim 12, wherein selectively rebinning the aligned IBR image data to form the multi-perspective panorama further includes:

subdividing each of the IBR image data into a plurality of portions; and combining a specific portion selected from each IBR image data to form a portion of the multi-perspective panorama.

17. (currently amended) The computer-readable medium recited in Claim 16, wherein subdividing each of the IBR image data into the plurality of portions further includes determining at least one displacement vector associated with the at least two IBR image data and subdividing at least one of the IBR image data based on the a magnitude of the displacement vector.

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18. (original) The computer-readable medium as recited in Claim 17, wherein the displacement vector is a motion vector.

- 19. (original) The computer-readable medium as recited in Claim 17, wherein determining at least one displacement vector further includes setting the displacement vector for each of the at least two IBR image data to be of equal magnitude so as to support a simple rebinning process.
- 20. (original) The computer-readable medium as recited in Claim 17, wherein determining at least one displacement vector further includes setting the displacement vector for each of the at least two IBR image data to be of different magnitude while supporting a smart rebinning process.
- 21. (original) The computer-readable medium as recited in Claim 12, further comprising instructions for:

generating a set of multi-perspective panoramas to provide a dense representation of an IBR captured environment.

22. (original) The computer-readable medium as recited in Claim 21, further comprising instructions for:

encoding at least a portion of the multi-perspective panoramas using a 3D wavelet transform.

23. (currently amended) An apparatus comprising:

at least one processing unit logic configured to selectively align at least two image based rendering (IBR) image data along a specific direction, and selectively rebin the aligned IBR image data to form a multi-perspective panorama by determining at least one displacement vector associated with the at least two IBR image data and subdividing at least one of the IBR image data based on the displacement vector and combining specific portions selected from each IBR image data to form at least a portion of the multi-perspective panorama.

- 24. (original) The apparatus as recited in Claim 23, wherein the IBR image data includes concentric mosaic (COM) image data.
- 25. (original) The apparatus as recited in Claim 24, wherein the specific direction is substantially a horizontal direction with respect to a captured scene.
- 26. (currently amended) The apparatus as recited in Claim 23, wherein the <u>processing unit logic</u> is further configured to pair-wise align of concentric mosaic (COM) image data.
- 27. (currently amended) The apparatus as recited in Claim 23, wherein the <u>processing unit logic</u> is further configured to subdivide each of the IBR image data into a plurality of portions, and combine a specific portion selected from each IBR image data to form a portion of the multi-perspective panorama.

- 28. (currently amended) The apparatus as recited in Claim 27, wherein the <u>processing unit logic</u> is further configured to <u>determine at least one</u> displacement vector associated with the at least two IBR image data and subdivide at least one of the IBR image data based on the <u>a</u> magnitude of the displacement vector.
- 29. (original) The apparatus as recited in Claim 28, wherein the displacement vector is a motion vector.
- 30. (currently amended) The apparatus as recited in Claim 28, wherein the <u>processing unit logic</u> is further configured to set the displacement vector for each of the at least two IBR image data to be of equal magnitude so as to support a simple rebinning process.
- 31. (currently amended) The apparatus as recited in Claim 28, wherein the <u>processing unit logic</u> is further configured to set the displacement vector for each of the at least two IBR image data to be of different magnitude while supporting a smart rebinning process.
- 32. (currently amended) The apparatus as recited in Claim 23, wherein the <u>processing unit logic</u> is further configured to generate a set of multiperspective panoramas to provide a dense representation of an IBR captured environment.

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33. (currently amended) The apparatus as recited in Claim 32, wherein the <u>processing unit logic</u> is further configured to encode at least a portion of the multi-perspective panoramas using a 3D wavelet transform.

34-36. (canceled)